

Annual Report on  
the Health of  
Thornton Cleveleys  
FOR THE YEAR 1950

MEDICAL OFFICER OF HEALTH

A. H. PENISTAN,  
M.D. (B.M.Lond.) M.R.C.S. (Eng.), L.R.C.P.(Lond.),  
F.Soc.M.O.H.

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CHIEF SANITARY INSPECTOR  
AND CLEANSING OFFICER

A. E. BARNES,  
M.R.S.I., M.S.I.A., M.I.T.A.,  
Certified Meat and Food Inspector.



# Thornton Cleveleys Urban District Council.

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## **HEALTH COMMITTEE, 1950.**

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Chairman : Councillor J. KEIRBY

Vice-Chairman : Councillor F. R. CAVE

Councillor D. BRUNDRIT, B.Sc., Ph.D.

Councillor W. A. CHADDERTON

Councillor A. GRIMSHAW

Councillor G. KIRWAN

Councillor W. QUINN

Councillor R. WARDLE

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### **Chairman of the Council :**

Councillor J. T. GRUNDY, J.P.

## **PUBLIC HEALTH OFFICERS**

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### **Medical Officer of Health :**

ARTHUR HENRY PENISTAN, M.B., B.S.(Lond.),  
M.R.C.S.(Eng.), L.R.C.P.(Lond.), F.Soc.M.O.H.

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### **Chief Sanitary Inspector and Cleansing Officer :**

ARTHUR EDWARD BARNES, M.R.S.I., M.S.I.A., M.I.T.A.  
(Certified Meat and Food Inspector)

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## **STAFF**

### **Technical :**

Additional Sanitary Inspector :

BRYAN R. NAGLE, C.R.S.I., M.S.I.A

Pupil Sanitary Inspector :

KENNETH E. EMERY (commenced 2nd October, 1950)

### **Clerical :**

Chief Clerk ..... Miss S. A. SIMCOCK

Clerk ..... Miss T. P. HALSTEAD

# Thornton Cleveleys Urban District Council.

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## MEDICAL OFFICER'S REPORT

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Council Offices,  
Thornton Cleveleys.

**To the Chairman and Members of the  
Thornton Cleveleys Urban District Council**

Gentlemen,

I beg to submit my report on the health of the district for the year 1950.

The health of the district has been satisfactory for the year, there having been 209 cases of infectious disease, compared with 321 in 1949. Of the 209 notified cases, 90 were chicken-pox and not cases of serious illness. There were also 72 cases of scarlet fever, but this was of a mild type, and 35 cases were nursed at home.

The infantile mortality rate is the lowest ever recorded for this district, and for the fourth year in succession the maternal mortality has been nil.

Very careful supervision has been exercised by the Chief Sanitary Inspector over milk and ice cream throughout the year, and frequent samples tested.

The housing shortage still remains a very serious problem.

Finally, I wish to express my warm appreciation of the enthusiastic work of the Chief Sanitary Inspector, Mr. A. E. Barnes, and all the members of the staff of the Health Department.

I have the honour to be, Gentlemen,

Your obedient Servant,

A. H. PENISTAN.

## VITAL STATISTICS

Home population (Registrar-General's estimate, mid-1950) : 15,650.

Live Births	Total	M.	F.	
Legitimate .....	173	84	89	Birth-rates per 1,000 esti-
Illegitimate .....	7	5	2	mated home population
	—	—	—	mid-1950 :—
	180	89	91	Crude .....
	—	—	—	Adjusted .....
				11.5
				13.3
Stillbirths .....	6	3	3	Rate per 1,000 total (live
				and still) births .....
				32
Deaths .....	288	138	150	Death-rate per 1,000 esti-
				mated home population,
				mid-1950 :
				Crude .....
				Adjusted .....
				18.4
				14.0

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### Maternal mortality :

Deaths from pregnancy, childbirth and abortion ..... Nil

Mortality rate per 1,000 total (live and still) births ..... Nil

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### Death-rate of infants under one year of age :

All infants per 1,000 live births ..... 17

Legitimate infants per 1,000 legitimate live births ..... 17

Illegitimate infants per 1,000 illegitimate live births ..... Nil

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### Neo-natal mortality :

Deaths of infants under four weeks of age ..... 3

Mortality rate per 1,000 live births ..... 17

Per 1,000 of Estimated Population.      Maternal Mortality Rate.      Infantile Mortality Rate.

Live Birth Rate.	Crude Death Rate.	Death Rate from Tuberculosis Respiratory System.	Death Rate from Cancer.	Per 1,000 live births.	Per 1,000 total (live and still births).	Rate of deaths under one year per 1,000 live births.
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# **Mean of Five Years :**

1945-49 ...	14.1	15.8	0.23	1.96	1.84	1.78	39
1949 ...	13.3	16.9	0.13	2.44	Nil	Nil	43
1950 ... + 11.5	*18.4	0.19	2.9	Nil	Nil	Nil	17

# **Increase or Decrease in 1950 on five years' average :**

1945-49 ...	-2.6	+2.6	-0.04	+0.94	-1.84	-1.78	-22
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Previous

Year ...	-1.8	+1.5	+0.06	+0.46	Nil	Nil	-26
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\*1950 adjusted death-rate (comparability factor 0.76)=  
14.0 per 1,000

+1950 adjusted birth-rate (comparability factor 1.16)=  
**13.3 per 1,000**

## STATISTICAL SUMMARY

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Area in statute acres ... ..	3,355
Population (estimated) ... ..	15,650
Density of population per acre ... ..	4,665
Number of inhabited houses (1931 Census) ... ..	2,625
Estimated number of inhabited houses (December, 1950) ... ..	4,958
Rateable Value ... ..	£136,946
Sum represented by a Penny Rate ... ..	£551
Adjusted Birth Rate per 1,000 Population ... ..	13.3
Adjusted Death Rate per 1,000 Population ... ..	14.0
Infantile Death Rate per 1,000 Births registered ... ..	17.0
Maternal Mortality ... ..	Nil
Phthisis Death Rate per 1,000 Population ... ..	0.191
Cancer Death Rate (Malignant Neoplasm) ... ..	2.9
Influenza Death Rate ... ..	Nil
Pneumonia (all forms) Death Rate ... ..	0.11
Respiratory Diseases ... ..	2.17

## ACTS IN FORCE IN THE DISTRICT

Thornton Urban District Council Act, 31st July, 1923.

Thornton Cleveleys Improvement Act, 31st July, 1936.

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## BYE-LAWS

- (i) Hackney Carriages ..... 1908
- (ii) New Streets ..... 1904 (Revised 1926)
- (iii) Building Bye-laws (Public Health Act,  
1936) ..... 1939
- (iv) Pleasure Grounds ..... 1938
- (v) Bye-laws under Section 15, Food and  
Drugs Act, 1938 ..... 1950



## **PHYSICAL FEATURES AND GENERAL CHARACTER OF THE DISTRICT**

By the Lancashire (Central and Western Areas) Review Order, 1934, a part of the Township of Carleton, containing 354 acres, was, on the 1st April, 1934, added to the Urban District. The district is bounded on the west by the Irish Sea, on the east by the River Wyre, on the north by the Borough of Fleetwood, and on the south by the Urban District of Poulton-le-Fylde and County Borough of Blackpool, and is flat in character, the only rising ground being in the North Ward (Bourne Hill) and the East Ward adjoining the river.

Consequent upon the addition of a part of Carleton to the district, the ward boundaries were altered as from 1st April, 1934.

The water courses of the district flow eastward into the Wyre.

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### **GEOLOGY**

The general sub-soil of the district is clay, which is overlaid with a thick layer of alluvial deposit (blue silt), varying in thickness from four feet to eight feet. On the top of this is a thin layer (about four inches) of peaty matter. Peaty matter of considerable thickness was found in one portion of the North Ward, Butts Road, and also in Fleetwood Road in South Ward. On the top of this again is a layer, varying from two and a half feet to four feet in thickness, of sandy soil or a mixture of soil and clay. The surface covering is about six inches in thickness. From above downwards we get (1) surface covering, (2) mixture of soil and clay or sandy soil, (3) peat, (4) blue silt, (5) boulder clay.

The nature of the above strata indicates that at some period the River Wyre overflowed a large portion of the district, leaving the alluvial deposit.

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### **CLIMATE**

The prevailing wind is a westerly sea breeze. An abundance of summer sunshine, together with usually mild winters, produces a temperate and very bracing climate.

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### **AREA AND DENSITY OF POPULATION**

As previously mentioned, the area of Thornton Cleveleys was, on the 1st April, 1934, increased by the inclusion of a part of the Parish of Carleton, the total area now being given as 3,355 acres.

The average number of persons per acre is 4.66.

The District is divided into Wards, viz :—

**West Ward.**—This Ward was, on the alteration of the boundaries, reduced in size ; the eastern boundary is now a building plot depth east of Cleveleys Avenue. This Ward is in the Cleveleys portion of the District, a rapidly-growing seaside resort, which enjoys an increasing popularity with visitors from inland towns. It is flat in character, with a slight slope eastwards. The number of houses in this Ward is 1,506.

**South Ward.**—Its western boundary adjoins the boundary of West Ward, and its eastern boundary is a building plot depth west of Fleetwood Road, which it follows throughout the District. It is again flat in character, and is residential (a portion of the District of Cleveleys being within its boundaries). The number of houses in this Ward is 1,455.

**North Ward.**—Is the industrial area of the District, and has within its boundaries the works of the Imperial Chemical Industries, Ltd. It is bounded on the north by the Borough of Fleetwood ; on the west by the eastern boundary of South Ward ; on the east by the River Wyre. On the south it cuts the remaining portion of the District roughly in half, and forms the northern boundary of East Ward. This boundary cuts across from Fleetwood Road, through Bancroft Avenue, and north of Hillylaid Road to the river. The number of houses in this Ward is 731.

**East Ward.**—This Ward is the agricultural area of the District. It also includes part of the added area. Its boundaries adjoin the South and North Wards, the River Wyre, and on the south the Urban District of Poulton-le-Fylde. The number of houses in this Ward is 1,266.

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## SOCIAL CONDITIONS, INDUSTRIES, ETC.

The western portion of the District has, in the last few years, rapidly developed as a seaside holiday resort, and with the additional amenities now provided, together with the activities of private builders, the District as a whole has greatly benefited.

The largest employers of labour within the District are the Imperial Chemical Industries, Ltd., who have a large chemical works on the northern boundary. There is still a large portion of the District devoted to agriculture.

During the period under review there has been very little unemployment here.

# RATEABLE VALUE

		For Poor Rate			Land			For General		
		Buildings						District Rate		
		£	s.	d.	£	s.	d.	£	s.	d.
1901	.....	18,303	0	0	3,927	0	0	17,779	0	0
		1d. Rate		...	84	9	0	74	1	7
1911	.....	29,288	0	0	4,146	15	0	26,897	0	0
		1d. Rate		...	140	13	5	112	1	5
1921	.....	41,251	5	0	4,559	15	0	38,777	0	0
		1d. Rate		...	171	15	1	158	6	9

		General Rate			Product of		
		£	s.	d.	£	s.	d.
1931	.....	79,073	0	0	306	0	5
1939	.....	115,560	0	0	445	0	0
1940	.....	115,909	0	0	456	11	4
1941	.....	121,319	0	0	454	0	0
1942	.....	121,322	0	0	484	0	0
1943	.....	124,939	0	0	500	11	7
1944	.....	126,709	0	0	512	12	6
1945	.....	127,365	0	0	512	16	2
1946	.....	126,751	0	0	506	0	0
1947	.....	130,503	0	0	532	0	0
1948	.....	135,387	0	0	531	0	0
1949	.....	135,712	0	0	544	0	0
1950	.....	136,946	0	0	551	0	0

## PART I—VITAL STATISTICS

**Population.**—The population at Census 1921 was 5,340. For 1931 Census the figure was 9,935 (corrected).

Registrar-General's Estimate .....	15,650
Number of Inhabited Houses at 31st December, 1950	4,958
Average number of persons per house .....	3.15

### BIRTHS

During the year 180 births were recorded by the Registrar-General, comprising 89 males and 91 females. The following table shows the number of births allocated to the various wards (after excluding transferable births).

Ward	Males			Females			Total
	Leg.	Illeg.		Leg.	Illeg.		
North .....	24	2	...	29	—	...	55
South .....	18	2	...	22	1	...	43
East .....	28	1	...	18	—	...	47
West .....	14	—	...	20	1	...	35
	—	—		—	—		—
	84	5		89	2		180
	—	—		—	—		—

Birth Rate for District : 13.3 per 1,000 as against 13.3 for 1949.

Birth Rate for England and Wales : Live Births, 15.8 ; Still-births, 0.37.

### DEATHS

Based on a population of 15,650, the Registrar-General gives the Death Rate as 14.0 as against 12.8 for 1949. The Death Rate for England and Wales is 11.6 per 1,000.

The allocation to the various Wards of the District (after excluding transferable deaths and including local residents dying outside the district) is as follows :—

Ward	Males		Females		Total
North .....	21	...	22	...	43
South .....	32	...	47	...	79
East .....	41	...	32	...	73
West .....	44	...	49	...	93
	—		—		—
	138		150		288

## **INFANTILE MORTALITY**

During the year, three deaths of Infants under 1 year occurred, all females.

The Infantile Mortality Rate is 17 as against 43 for 1949.

The Infantile Mortality Rate for England and Wales is 29.8 as against 32 for 1949.

## **PULMONARY TUBERCULOSIS**

Three deaths occurred from Respiratory Tuberculosis (two males and one female).

The Respiratory Death Rate is 0.191 against 0.128 for 1949.

## **RESPIRATORY DEATH RATE**

There were three deaths from Pneumonia (— males and three females) and 28 deaths from Bronchitis (15 males and 13 females).

The Respiratory Death Rate is 1.98 per 1,000 of the population, as against 2.18 for 1949.

## INQUIRIES AND INQUESTS

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In the year there were 12 inquests and/or inquiries on residents belonging to the District, as follows :—

### North Ward

- (1) Female. 68 years. Myocardial degeneration.
- (2) Male. 79 years. Misadventure—myocarditis and arterio sclerosis ; death due to fall.

### South Ward

- (3) Male. 65 years. Syncope due to chronic myocarditis.

### East Ward

- (4) Male. 64 years. Pulmonary embolism.
- (5) Male. 84 years. Acute pulmonary congestion.
- (6) Female. 68 years. Misadventure—fracture of the skull (knocked down by tram).

### West Ward

- (7) Male. 67 years. Suicide—coal gas poisoning.
- (8) Male. 39 years. Suicide—gunshot wound in head.
- (9) Male. 70 years. Syncope due to rupture of left ventricle of heart.
- (10) Female. 74 years. Fatty degeneration of heart.
- (11) Male. 68 years. Suicide—strangulation by hanging.
- (12) Female. 57 years. Misadventure—cardiac collapse under general anæsthetic (chloroform).

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## AGES AT DEATH

	Males	Females	Total
Under one week .....	— ...	2 ...	2
One week to six months .....	— ...	1 ...	1
Six months to 12 months .....	— ...	— ...	—
	—	—	—
Total under one year .....	—	3	3
One to five years .....	— ...	2 ...	2
	—	—	—
Total under five years .....	—	5	5
5 to 15 years .....	1 ...	— ...	1
15 to 25 years .....	— ...	2 ...	2
25 to 45 years .....	4 ...	4 ...	8
45 to 65 years .....	28 ...	25 ...	53
65 years and over .....	105 ...	114 ...	219
	—	—	—
	138	150	288
	—	—	—



## CAUSES OF DEATH

	Males	Females	Total
All causes .....	138 ...	150 ...	288
Tuberculosis of Respiratory System	2 ...	1 ...	3
Syphilitic disease .....	1 ...	— ...	1
Cancer (Malignant Neoplasm) .....	18 ...	27 ...	45
Leukæmia .....	1 ...	— ...	1
Vascular Lesions of Nervous System	18 ...	23 ...	41
Coronary Disease—Angina .....	19 ...	4 ...	23
Hyper Tension with Heart Disease	1 ...	4 ...	5
Other Heart Disease .....	40 ...	54 ...	94
Other Circulatory Disease .....	5 ...	2 ...	7
Pneumonia .....	— ...	3 ...	3
Bronchitis .....	15 ...	13 ...	28
Other Diseases of Respiratory System	1 ...	1 ...	2
Ulcer of Stomach and Duodenum ...	1 ...	— ...	1
Gastritis, Enteritis and Diarrhœa ...	— ...	2 ...	2
Nephritis and Nephrosis .....	1 ...	2 ...	3
Hyperplasia of Prostate .....	4 ...	— ...	4
Congenital malformations .....	— ...	2 ...	2
Other defined and ill-defined diseases	7 ...	11 ...	18
Accidents other than Motor Vehicle Accidents .....	1 ...	1 ...	2
Suicide .....	3 ...	— ...	3
	<hr/> 138	<hr/> 150	<hr/> 288

### Death Rate per 1,000 of the Population for :—

(1) Influenza .....	Nil
(2) Respiratory Diseases .....	2.17
(3) Pneumonia (all forms) .....	0.11
(4) Tuberculosis—Pulmonary .....	0.191
(5) Tuberculosis—Non-Pulmonary .....	Nil
(6) Cancer .....	2.9

The Rates given below are corrected in accordance with the new regulations of the Registrar-General, i.e., taking into consideration Transferable Deaths :—

	Birth Rate.	General Death Rate.	Infantile Mortality.
1900 (nine months only) ... ..	31.6	18.8	217
1901 ... ..	34.1	11.05	92
1902 ... ..	37.7	12.8	106
1903 ... ..	33.5	14.7	135
1904 ... ..	31.2	14.2	103
1905 ... ..	22.3	13.6	68
1906 ... ..	29.5	10.6	68
1907 ... ..	27.1	9.2	69
1908 ... ..	25.6	13.1	88
1909 ... ..	22.6	12.8	57
1910 ... ..	28.2	10.5	80

The following Table shows the Birth, Death and Infantile Mortality Rates since this District was created an Urban Authority in 1900 :—

	Birth Rate.	General Death Rate.	Infantile Mortality.
1911 ... ..	24.1	13.7	99
1912 ... ..	21.5	13.3	90
1913 ... ..	23.2	7.9	65
1914 ... ..	23.06	11.07	64
1915 ... ..	17.72	11.52	72
1916 ... ..	19.02	13.04	120
1917 ... ..	17.57	12.36	105
1918 ... ..	14.44	17.89	78
1919 ... ..	16.5	12.3	79
1920 ... ..	19.9	14.6	84
1921 ... ..	20.4	10.8	55
1922 ... ..	14.5	9.7	25
1923 ... ..	19.8	13.2	64
1924 ... ..	17.2	11.5	49
1925 ... ..	15.7	15.2	81
1926 ... ..	17.5	12.0	46
1927 ... ..	12.0	12.4	51
1928 ... ..	15.0	10.5	58
1929 ... ..	17.6	15.3	47
1930 ... ..	15.8	11.9	39
1931 ... ..	13.2	12.3	67
1932 ... ..	9.6	13.1	51
1933 ... ..	11.0	12.8	52
1934 ... ..	12.3	13.6	29
1935 ... ..	12.0	10.7	50
1936 ... ..	13.1	13.4	68
1937 ... ..	11.6	13.3	82
1938 ... ..	10.2	13.6	45
1939 ... ..	11.0	13.9	76
1940 ... ..	8.1	11.1	38
1941 ... ..	10.5	13.1	49
1942 ... ..	10.2	13.2	60
1943 ... ..	11.9	13.6	37
1944 ... ..	10.8	14.0	72
1945 ... ..	12.8	16.1	36
1946 ... ..	15.1	16.9	47
1947 ... ..	14.6	14.9	30
1948 ... ..	14.3	13.9	39
1949 ... ..	13.3	12.8	43
1950 ... ..	13.3	14.0	17



## PART II

### INFECTIOUS DISEASE

There were 209 cases of Infectious Disease notified during the year, as against 321 cases in 1949, and were as follows :—

	Total Cases Notified	Cases admitted to Hospitals & Sanatorium			Total Deaths
Scarlet Fever .....	72	...	35	...	—
Whooping Cough .....	8	...	—	...	—
Erysipelas .....	3	...	2	...	—
Pneumonia .....	6	...	—	...	—
Chicken Pox .....	90	...	—	...	—
Measles .....	13	...	—	...	—
Infantile Paralysis .....	3	...	3	...	—
Puerperal Pyrexia .....	2	...	2	...	—
Food Poisoning .....	1	...	1	...	—
Pulmonary Tuberculosis .....	9	...	5	...	3
Non - Pulmonary Tuberculosis	2	...	1	...	—
	<hr/>		<hr/>		<hr/>
	209		49		4

The distribution in relation to the Wards of the district is as follows :—

	North		South		East		West		Total
Scarlet Fever .....	14	...	9	...	32	...	17	...	72
Whooping Cough .....	1	...	2	...	1	...	4	...	8
Erysipelas .....	—	...	2	...	—	...	1	...	3
Pneumonia .....	—	...	1	...	5	...	—	...	6
Chicken Pox .....	30	...	19	...	29	...	12	...	90
Measles .....	3	...	2	...	3	...	5	...	13
Infantile Paralysis .....	—	...	—	...	1	...	2	...	3
Puerperal Pyrexia .....	1	...	—	...	1	...	—	...	2
Food Poisoning .....	1	...	—	...	—	...	—	...	1
Pulmonary Tuberculosis	3	...	2	...	2	...	2	...	9
Non-Pulmonary Tuberculosis	—	...	—	...	2	...	—	...	2
	53		37		76		43		209

# CASES NOTIFIED.

The following Table shows the number of cases and the months in which they were notified.

DISEASE	January	February	March	April	May	June	July	August	September	October	November	December	TOTAL
Scarlet Fever ...	4	3	1	2	—	2	—	—	10	18	18	14	72
Whooping Cough ...	1	—	—	—	—	—	—	3	3	—	—	1	8
Erysipelas ...	—	—	1	—	1	—	—	—	—	1	—	—	3
Pneumonia ...	—	1	—	5	—	—	—	—	—	—	—	—	6
Chicken Pox ...	8	—	—	3	—	—	—	1	2	1	22	53	90
Measles ...	—	—	—	—	3	—	3	3	—	1	—	3	13
Infantile Paralysis ...	—	—	—	—	—	—	1	1	—	1	—	—	3
Puerperal Pyrexia ...	—	1	—	—	—	—	—	1	—	—	—	—	2
Food Poisoning ...	—	—	—	—	—	—	1	—	—	—	—	—	1
Pulmonary Tuberculosis ...	1	—	3	2	1	—	—	—	1	1	—	—	9
Non-Pulmonary Tuberculosis ...	—	—	—	1	—	—	1	—	—	—	—	—	2
TOTAL ...	14	5	5	13	5	2	6	9	16	23	40	71	209

# TUBERCULOSIS

The following Table shows the age periods of the cases notified.

AGE PERIODS	New Cases				Deaths			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	Males	Females	Males	Females	Males	Females	Males	Females
1 to 5 years	—	—	—	—	—	—	—	—
5 to 10 years	—	—	—	1	—	—	—	—
10 to 15 years	—	—	—	—	—	—	—	—
15 to 20 years	1	1	—	—	—	—	—	—
20 to 25 years	—	—	—	—	—	—	—	—
25 to 35 years	—	1	—	—	—	—	—	—
35 to 45 years	4	—	—	—	—	1	—	—
45 to 55 years	—	—	—	—	1	—	—	—
55 to 65 years	1	1	1	—	1	—	—	—
65 and upwards	—	—	—	—	—	—	—	—
	6	3	1	1	2	1	—	—

# NOTIFIABLE DISEASES DURING THE YEAR.

Age periods.

DISEASE	Under 1 Year	1—2	2—3	3—4	4—5	5-10	10— 15	15— 20	20— 35	35— 45	45— 65	Over 65	TOTAL
Scarlet Fever ...	—	2	4	7	14	39	4	—	1	—	1	—	72
Whooping Cough ...	—	2	2	—	—	4	—	—	—	—	—	—	8
Erysipelas ...	—	—	—	—	—	—	—	—	—	1	2	—	3
Pneumonia ...	—	—	—	—	—	—	—	—	2	—	2	2	6
Chicken Pox ...	—	2	5	3	15	60	2	—	1	—	—	—	90
Measles ...	—	1	2	1	6	2	—	1	—	—	—	—	13
Infantile Paralysis ...	—	—	1	—	—	1	—	—	1	—	—	—	3
Puerperal Pyrexia ...	—	—	—	—	—	—	—	—	1	1	—	—	2
Food Poisoning ...	—	—	—	—	—	—	—	—	—	—	1	—	1
Pulmonary Tuberculosis ...	—	—	—	—	—	—	—	2	1	—	2	—	9
Non-Pulmonary Tuberculosis ...	—	—	—	—	—	1	—	—	—	—	1	—	2
TOTAL	—	7	14	11	35	107	6	3	7	8	9	2	209

## BACTERIOLOGICAL EXAMINATIONS

These are carried out at the Public Health Laboratory, Manchester, and at the Public Health Laboratory, Blackpool.

Examination of sputum for the tubercle Bacillus is carried out at the Elswick Sanatorium.

### Summary of Nursing Arrangements :

#### Hospitals and other Institutions available for the District Nursing, Professional Nursing in the Home.

- (a) In July, 1923, the district was provided through the Thornton Cleveleys District Nursing Association, which is affiliated with the Queen Victoria Jubilee Institution of Nurses, with a Nurse or Nurses as occasion required. The services have given entire satisfaction and are a boon to the district.

No of cases visited  
during the year  
259

Number of visits made  
during the year  
6,887

- (b) **For Infectious Diseases.** No action has been required, but a Nurse will be engaged if necessary.

### MATERNITY AND CHILD WELFARE CENTRE

The new County School Medical and Child Welfare Department in Church Road, Thornton, was opened in May, 1939. The School Medical Officer and Nurses (County Council) and ladies of the district attend weekly.

Number of occasions the Centre was opened ..	48
Number of individual children attending .....	455
Number of attendances of children .....	4,475

Under 1 year	From 1-2 years	From 2 years & over	Total
2,826	916	733	4,475

Number of attendances by expectant mothers :

No. of individual expectant  
mothers attending  
298

Number of actual  
attendances  
1,637

**Midwives Act, 1902.**—Midwives resident in the district and certified under the above Act are enrolled on the County Register. The above are under supervision of the County Medical Officer of Health.

**Clinic and Treatment.**—One is situated in the district. Tuberculosis is dealt with by the County Tuberculosis Officer on notification. Venereal Disease cases attend the Blackpool Centres at the Victoria Hospital, Blackpool, and Fleetwood Hospital.

**Nursing Homes.**—There are now only two Nursing Homes within the district.

**Public Health (Prevention of Tuberculosis) Regulations, 1925.  
Public Health Act, 1925. Section 62.**

No action was required under the above Regulations, etc.

**Hospital.**—None in the district. Cases are sent to Blackpool, Fleetwood, Preston, Manchester, etc. Ambulance facilities are good. Hospital facilities for Infectious Diseases are satisfactory. The district is provided with hospital accommodation for smallpox at Elswick ; infectious diseases at Blackpool Isolation Hospital ; sanatorium treatment at Elswick, Grange, High Carley and other centres.

**FOOD POISONING OUTBREAKS**

Total number of Outbreaks	Number of cases	Number of deaths	Organisms or other agents responsible, with number of outbreaks of each	Foods involved with number of outbreaks of each
1	1	—	Nil.	Undiscovered

# CHIEF SANITARY INSPECTOR'S REPORT

Council Offices,  
Thornton Cleveleys.

**To the Chairman and Members of the  
Thornton Cleveleys Urban District Council**

Gentlemen,

I have the honour to present the Annual Report on the work of the Sanitary and Cleansing Department of the Council for the year 1950.

The report has been prepared in collaboration with the Medical Officer of Health, thus repetition has been avoided.

Although the work of the department is not spectacular, it has proceeded in a satisfactory manner, and is essential to the health and well-being of our community. Day to day attention has been given to improvements in living conditions, safety of food supplies, health and comfort of workers, and all matters necessary in a community such as ours.

The Cleansing Service has carried on satisfactorily during the year. Increases in costs of materials and labour reflect themselves in the cost of refuse collection, a substantial increase being shown over the previous year. The expenditure per 1,000 houses has risen from £740 to £923 and the expenditure per 1,000 of the population has risen from £233 to £293.

The receipts for the sale of salvage have been satisfactory and every endeavour must be made to increase this amount. The tendency at the end of the year was towards an increase in the price paid to us for wastepaper. At the present time it is an economical proposition for us to collect wastepaper and it is essential in the interests of the economy of the country that we make greater efforts in the future.

There is some overcrowding of houses in the district, though to what extent it is not known with any degree of accuracy. Serious consideration should be given by the Council to the provision of some two-bedroom Council houses, in which families with one or two children could be adequately housed. There is a real need in this area for the provision of a small-type house.

A new mortuary was completed during the year and this is a great and necessary improvement.

I desire to pay a sincere tribute to the members of the Council and the Health Committee, for their help and ever-ready co-operation in all matters affecting the sanitary conditions of our district.

I especially thank the four members of my staff for their helpful and loyal co-operation during the year.

I am, Gentlemen,

Your obedient Servant,

ARTHUR E. BARNES.



## SANITARY CIRCUMSTANCES IN THE AREA

### WATER SUPPLY

The district is supplied by the Fylde Water Board, the water being of good quality, pleasantly soft and of a peaty nature. Only one outlying house depends on well water.

Six samples of water were obtained from the Mains supply; four were submitted for bacteriological examination and two for chemical analysis. All the samples were satisfactory.

#### Statistics

Total no. of houses supplied by the Fylde Water Board (31/12/50)	4,957
Total no. of houses dependent upon well water ... ..	1
	<hr/>
	4,958
	<hr/>

The only house in the district dependent upon well water is remote from any mains supply and it would be impossible, except at exorbitant cost, to have it connected to the mains supply.

### DRAINAGE AND SEWERAGE

Owing to the flat nature of the district, a system of ejectors worked by compressed air is in operation. The sewage is discharged near dead low water into the Irish Sea. No extensive additions have been made to the sewers during the period under review, but additions were made to drain certain farm premises.

#### Statistics

Dwelling-houses using water carriage system ... ..	4,931
Dwelling-houses using waste-water closets ... ..	0
Dwelling-houses using privy middens ... ..	5
Dwelling-houses using pail-closets ... ..	22
	<hr/>
	4,958
	<hr/>

#### Conversions During the Year

Number of Privy Closets :	
To Fresh Water Closets ... ..	1
Demolished ... ..	1
Number of Pail Closets :	
To Fresh Water Closets ... ..	0
Number of Waste Water Closets :	
To Fresh Water Closets ... ..	0
	<hr/>
	2
	<hr/>

It will not be possible for further conversions to take place in this area until the sewers are extended. The 27 premises without modern sanitary accommodation are farms or outlying cottages and to which no sewers are available.



## **DRAINAGE**

There are 60-70 premises in the district which are not connected to the Council's sewers but which have septic tanks and filters, usually discharging to an adjacent watercourse. Some of these are not satisfactory in all respects, but are mostly in outlying districts in which no public sewers are available. As and when sewers become available, these will be connected.

The drainage from the premises of one large hotel was found to discharge through tanks to a creek and then to the River. The re-drainage of the whole of the premises and connection to the Council's sewer, was carried out during the year. At the end of the year work was in progress at large dwelling-house premises to disconnect cess-pools discharging to a watercourse and provision being made for additional drainage and connection to Council's sewer.

### **Improvements obtained as a result of action by the Department**

1. Redrainage of hotel premises and connection to Council's sewer.
2. Extension of drains to receive additional sanitary fittings.
3. Replacement of field tiles by glazed pipes.
4. Additional drains to drain water from under floors of house.
5. Extension of drain and provision of inspection chamber.

The department employs a man part-time on drainage work, the cost of clearing and cleansing the blocked drains being borne by the owner or occupier. This service to the public is much appreciated and also helps in the efficient working of the department; preparation and service of notices thus being avoided, unless the blocking is due to structural defect of the drain.

### **Statistics**

Total number of drains cleansed from obstruction ... ..	165
Number of cleansed by Department's workmen ... ..	165

## **PUBLIC CLEANSING**

The work of the Public Cleansing section of the department was carried out in a satisfactory manner during the year. The collection of household refuse and salvage was carried out by one 16 cu. yd. S.D. (Newcastle type) side-loading freighter with a cab to accommodate driver and four loaders; and one "W" type S.D. 16 cu. yd. side-loading freighter with cab to accommodate driver and four loaders. A special weekly collection of salvage from shop and business premises in the area is carried out by one 11 cu. yd. S.D. freighter.

During the whole of the year a weekly collection of refuse and salvage from all premises in the district was maintained. If we are to get the maximum amount of salvage from the public, it is most essential that a weekly collection should operate. No additional men have been employed during the year although 30,000 more visits to premises were carried out and over 37,000 more dust-bins were emptied.

The "output" per man has increased during the year but it should be our endeavour to reach a still higher level.

### Costings—Refuse Collection (Year Ending 31st March, 1951)

Total gross cost involved—collection of house, shop, trade refuse and salvage ... ..	£5,909
Amount of Salvage Sales ... ..	£1,331
	Net cost
Expenditure per 1,000 houses per annum ... ..	£4,578
Expenditure per 1,000 population per annum ... ..	£923
	£293

### DISPOSAL OF REFUSE

The refuse collected in this area is disposed of by means of controlled tipping, the tip being situated on the northern boundary of the district. The tipping of household refuse is carried out strictly on the lines laid down by the Ministry of Health, and no nuisance has been observed or any complaints received.

The site used during the early part of the year belongs to the Council and will eventually be used as a garden adjacent to a proposed cemetery. All surface soil is excavated and placed on one side until a portion of the tip has been completed, when the soil is replaced at the new level. It was found necessary during the year, to purchase an area of approximately 9 acres of land adjacent to our present site. This will give us disposal facilities for a period of six-seven years. The watercourse running through the land has been diverted and straightened and the land has been fenced. The estimated life of the land we have purchased is based on present yield of refuse and opportunity should be taken in the near future to acquire more land for further tipping sites.

The ideal, of course, would be to have land for tipping facilities for a period of twenty years, after allowing for the growth of the district. We use approximately  $1\frac{1}{2}$  acres per year on our present depth of tipping.

### Costings — Refuse Disposal (Year Ending 31st March, 1951)

Number of loads ... ..	1,826
Estimated weight (tons) ... ..	4,205
Total Cost ... ..	£658
Cost per ton ... ..	3/2d.
Cost per 1,000 houses per annum ... ..	£133
Cost per 1,000 population per annum ... ..	£42

### Costings — Refuse Collection and Disposal

Total cost ... ..	£5,236
Cost per 1,000 houses per annum ... ..	£1,056
Cost per 1,000 population per annum ... ..	£335

### COLLECTION AND DISPOSAL OF SALVAGE

The Council decided to carry on with the collection of waste paper and other salvage. We had no difficulty during the period under review in disposing of the wastepaper and towards the end of the year the prices increased greatly, so that it is once again an economical proposition for the Council to collect and dispose of wastepaper and salvage.

From the statistics below, it will be observed that we collected 10 tons less paper in 1950 than in 1949, and 30 tons less salvageable materials than in 1949. The receipts for the sale of salvage are £116 down compared with the year 1949, although with the increased price for wastepaper we can look forward in the future to an increase in this amount rather than a decrease.

Thanks are due to the workmen engaged on refuse and salvage collection and disposal, for the co-operation they have given in this section of the work during the past year.

### MATERIALS SALVAGED

	1950			1950			1949		
	tons cwt. lbs.			£	s.	d.	tons cwt. lbs.		
Wastepaper ... ..	179	6	28	954	4	11	189	10	40
Mixed Rags ... ..	2	7	28	42	10	6	5	13	22
Bottles and Jars ... ..	1	3	7	5	17	0	1	12	69
Carpet and String ... ..	1	14	72	8	14	5	3	10	73
Lead ... ..	0	0	65	1	1	8	—	—	—
Copper... ..	0	0	2	0	0	8	0	0	61
Miscellaneous ... ..	—	—	—	0	8	0	—	—	—
Mixed Scrap Iron ... ..	—	—	—	—	—	—	10	0	0
Light Scrap Iron ... ..	—	—	—	—	—	—	0	5	0
Mixed Brass ... ..	—	—	—	—	—	—	0	0	110
Uncleaned Aluminium... ..	—	—	—	—	—	—	0	0	91
Kitchen Waste ... ..	—	—	—	—	—	—	3	5	56
Wastepaper Claims ... ..	—	—	—	53	10	8	—	—	—
	184	11	90	1066	7	10	213	19	74

### SPECIAL SALVAGE DRIVES

No special Salvage Drives took place in this area during the year.

### REFUSE COLLECTION STATISTICS

	1950	1949
1. Estimated tonnage collected ... ..	4,205	3,840
2. Total mileage run by vehicles ... ..	17,532	15,363
3. Number of visits to premises .. ..	272,521	242,555
4. Number of Ashbins emptied ... ..	321,616	284,244

### Employees

Foreman ... ..	1
Motor Drivers ... ..	3
Refuse and Salvage Collectors ... ..	10
Paper Balers ... ..	2
Tip Man ... ..	1

**Total : 17**

Owing to holidays and sickness, the number of employees shown was not always available throughout the period under review, but shows the present minimum requirements of the department.

## SANITARY INSPECTIONS

The following tables show the number of inspections carried out during the year.

Number of premises visited ... ..	3,472
Number of defects or nuisances discovered ... ..	151
Number of defects or nuisances abated ... ..	143
Number of Informal Notices served ... ..	49
Number of Statutory Notices served ... ..	13

### WORKS DEALT WITH

Drains relaid ... ..	5
Defective drains repaired or cleansed ... ..	165
Yards paved and repaired ... ..	4
Floors of dwellings re-laid or repaired ... ..	2
Dilapidated walls and ceilings repaired ... ..	5
Damp walls and ceilings waterproofed ... ..	1
Walls re-pointed or cement rendered ... ..	5
Roofs repaired and made weatherproof ... ..	10
Additional windows provided and existing windows repaired and made to open ... ..	19
Defective spouting repaired or replaced ... ..	6
Waste pipes provided and others repaired ... ..	3
Houses cleansed, disinfested or disinfected ... ..	51
Defective fireplaces and firegrates repaired ... ..	2
Building Licences ... ..	146
Additional w.c.'s provided ... ..	6
Water closets reconstructed and intervening ventilated spaces... ..	3
Water closets repaired or limewashed ... ..	4
Water closets provided with new pedestals ... ..	1
Provision of lighting to w.c. ... ..	1
Houses provided with Sanitary Dustbins ... ..	166
Piggery improvements ... ..	1
Bakehouses—Limewashing carried out ... ..	28
Factories—Limewashing carried out ... ..	1
Smoke Nuisances dealt with ... ..	1
Defective doors repaired or new doors provided ... ..	6
Defective joints in flush pipes repaired ... ..	2
Offensive accumulations removed ... ..	1
New flushing cistern provided ... ..	1
Dairies reconstructed or improved ... ..	1
Skirting boards repaired ... ..	2
Repairs to Chimney Stack ... ..	1
... Total	650

## SUMMARY OF VISITS MADE IN 1950

Number of complaints received and investigated ... ..	374
Visits to defective w.c.'s ... ..	28
Visits re w.w.c. conversions and additional w.c.'s ... ..	3
Visits to defective drains and drains tested ... ..	274
Visits to work ordered or in progress ... ..	98
Visits to owners, agents and contractors ... ..	143

### Milk and Dairies Orders

Inspection of Dairies, Milkshops and Milk Vehicles ... ..	33
Other inspections ... ..	6
Milk Samples ... ..	69
Milk Samples (Informal) ... ..	33
Visits to Bakehouses, Restaurants, Cafe/Kitchens ... ..	144
Visits to Food Preparation Rooms ... ..	24
Visits re Unsound Foodstuffs ... ..	44
Visits to Fish Friers' Premises ... ..	35
Visits to Hawkers' Premises ... ..	30
Visits to premises where Ice Cream is manufactured and/or sold	95
Visits to Butchers' Shops ... ..	45
Visits re Slaughter of Pigs ... ..	99
Visits re pig-keeping and piggeries ... ..	184
Visits re poultry-keeping ... ..	2

### Samples taken :

Ice Cream . ... ..	112
Food ... ..	21
Water ... ..	6
Visits to Markets ... ..	45
Visits to Factories and Workplaces ... ..	288
Visits to Factories, re " Means of Escape in case of Fire " ... ..	3
Survey of Factory Chimneys ... ..	56
Visits to Tents, Vans, Sheds and Caravan Sites ... ..	107
Infectious Diseases enquired into ... ..	198
Visits to premises re Rats, Mice and other Vermin ... ..	1943
Visits re Refuse Collection and Disposal ... ..	607
Inspections re Demolition of Cottage ... ..	20
Articles disinfected ... ..	253
Articles destroyed ... ..	78
Premises disinfected ... ..	67
Enquiries re Council House Tenancies ... ..	37
Inspection of tenanted Council Houses ... ..	25
Building Licences issued ... ..	146
Number of Housing Inspections under Public Health Acts ... ..	263
Number of Housing Inspections under Housing Acts ... ..	30
Miscellaneous Visits ... ..	146
Notices served—all purposes ... ..	62
Visits to tip on Foreshore ... ..	4
Inspections under Shops Act ... ..	469
Survey of Rainwater Pipes ... ..	1
Visits re Smoke Nuisances ... ..	6
Inspection of Ponds in the District ... ..	17
Visits re water under floors ... ..	15

Total	6788
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## PRINCIPAL CATEGORIES OF WORK FOR WHICH BUILDING LICENCES WERE ISSUED IN 1950

Interior Painting and Decorating ... ..	16
Exterior Painting ... ..	2
Provision of wash-bowls, sinks, baths, w.c.'s ... ..	15
Repairs or renewals of fireplaces ... ..	14
Repairs to doors, windows, etc. ... ..	6
Repairs to roofs ... ..	5
Repairs, etc., to footpaths, yards, drives, etc. ... ..	6
Repairs to chimneys ... ..	2
Repairs to and pointing of brickwork ... ..	2
Repairs to floors ... ..	6
Plumbing and Electrical Repairs ... ..	9
New Guttering ... ..	3
Electrical wiring of premises ... ..	4
Installation of Central Heating Equipment ... ..	1
Installation of Hot Water System ... ..	3
General Repairs ... ..	3

Total Value of Licences issued : £7,231 10s. 0d.



## SHOPS ACT, 1934

A survey of shops in the area was carried out during the year, and for the purpose 469 inspections were made. Shops coming within the scope of the Factories Act have been included in the following list, but the record of inspections is included under Factories.

### PARTICULARS OF SHOPS VISITED

Grocery and Mixed Businesses .. .. .	53
Bakers and Confectioners .. .. .	27
Sweets, Tobacco and Newsagents .. .. .	37
Drapers and Fancy Goods .. .. .	20
Ladies' and Gents' Hairdressers .. .. .	22
Outfitters and Milliners .. .. .	31
Fried Fish Shops .. .. .	15
Butchers' Shops .. .. .	19
Boot and Shoe Repairers and Retailers .. .. .	14
Greengrocers, Fishmongers and Florists .. .. .	18
Chemists .. .. .	12
Electric, Radio, Gramophone and Cycle Dealers .. .. .	11
Hardware .. .. .	9
Off-Licence Shops .. .. .	6
China, Antiques, etc. .. .. .	2
Plumbers and Painters .. .. .	9
Furnishers .. .. .	5
Pet Stores .. .. .	3
Opticians .. .. .	3
Dry Cleaners .. .. .	4
Watchmakers, etc .. .. .	3
Photographic Studios, etc. .. .. .	3
Second-hand Dealers .. .. .	1
Booking Offices and Travel Agencies .. .. .	2
	<hr/>
	329

### OFFICES—PUBLIC HEALTH ACT, 1936

Offices in the area are, for the most part, of a modern character and mostly comply with the requirements of the Act. They were all inspected during the year.

## MOVABLE DWELLINGS AND CAMPING SITES

There are no licensed camping sites in the area, but three have been used during the period, and these are approved and comply with the requirements laid down by the Council and are permitted to be used for the following number of caravans :—

No. 1 Site .....	201 caravans.
No. 2 Site .....	38 caravans.
No. 3 Site .....	30 caravans.

**No. 1 Site.**—The outstanding work in regard to the surfacing of the roadways and the provision of additional sanitary conveniences was completed during the year, and this site is now satisfactory.

**No. 2 Site.**—This site meets the requirements of the Council with regard to the siting of caravans, drainage, water supply, sanitary accommodation and receptacles for refuse.

**No. 3 Site.**—This site meets the requirements of the Council with regard to the siting of caravans, drainage, water supply, sanitary accommodation and receptacles for refuse. The Council have asked for some additional work to be done at this site, and it is anticipated that this will be carried out in 1951.

The sites generally have been conducted in a satisfactory manner, and have given us no cause for complaint. It has been found upon investigation that some are being used by caravans for permanent occupation. It is not the intention of the Council that they should be so used, but for holiday purposes only, and when the housing position improves it is intended that the caravans should not be used for permanent occupation.

Whether we like caravan and camping sites or not, we should face up to the fact that this form of holiday is very popular and is increasing in popularity. I am of the opinion that proper and adequate provision has been made by this Authority in this area. It is far better to have properly regulated and controlled sites in a district than sites used indiscriminately, with the subsequent trouble and nuisances they cause.

## THORNTON CLEVELEYS IMPROVEMENT ACT, 1936

It was found necessary during the year to take proceedings regarding the use of land for occupation by movable dwellings, contrary to Section 43 of the above Act. The defendant was fined £5, with a daily penalty of 1/- for the first month and thereafter £1 per day. The use of the land for this purpose was also the subject of a Public Inquiry held by an Inspector from the Ministry of Town and Country Planning.

## SMOKE ABATEMENT

Some complaints have been received during the year regarding alleged smoke nuisances, and these were investigated by the Department and, where necessary, appropriate action taken.

With the development of the light industrial site in the area and the fact that factories are now coming into full production, it is necessary that we should have bye-laws to deal with this matter in our district.



## VERMINOUS PREMISES

Several complaints were received during the period, being varied but not extensive. All complaints were thoroughly investigated, advice and help given.

Eradication of infestations of ants is carried out by proprietary insecticides, latterly the use of D.D.T. Powders and "Pyagra."

Eradication of infestations of bed-bugs is carried out by private contractors using hydrogen cyanide gas. Minor and new infestations are carried out by the Department, in co-operation with the tenants or owners concerned.

### PARTICULARS OF COMPLAINTS RECEIVED AND ERADICATIONS CARRIED OUT

Ants .....	Complaints received .....	2
	Eradications .....	2
Cockroaches .....	Complaints received .....	4
	Eradications .....	4
Silver Fish .....	Complaints received .....	1
	Eradications .....	1
Earwigs .....	Complaints received .....	1
	Eradications .....	1
Beetles .....	Complaints received .....	1
	Eradications .....	1
Wasps .....	Complaints received .....	3
	Eradications .....	3
Wood Beetle .....	Complaints received .....	1
	Eradications .....	1

## RODENT CONTROL

During the year the test-baiting of the foul-sewers was carried out, and for that purpose 201 inspection chambers were used and in each case no takes were observed. An exemption certificate was received from the Divisional Rodent Officer of the Ministry of Agriculture and Fisheries for the year ending 31st March, 1951, so far as foul sewer treatment was concerned.

The charges agreed by the Council for treatment on premises are as under :—

Small private dwelling-houses .....	5/-
Larger houses, boarding houses, hotels, and all business premises .....	Time plus cost of bait.

### STATISTICS

Number of complaints received .....	112
Number of infestations .....	100
Number of visits for purposes of eradication .....	1,943
Number of premises successfully treated .....	100

The methods adopted in this area for the eradication of rodents are those recommended by the Ministry of Agriculture and Fisheries, Infestation Division.

### PREVENTION OF DAMAGE BY PESTS ACT, 1949

This Act came into force on the 31st March, 1950, and places additional responsibilities on the Local Authorities in regard to the destruction of rats and mice in their particular area.

During the period under review we have experienced no difficulty in regard to the operation of this Act, but the matter is being carefully watched and it may be necessary for the part-time rodent operator to spend more time on "search" of the district than formerly.

### DISINFECTION

Disinfection is carried out by means of a formalin spray, or by means of formalin fumigators. A Thresh steam disinfector was installed in the Council's Depot in 1925.

Disinfection is carried out on request in houses where deaths have occurred from cancer, and in all cases where deaths have occurred from pulmonary tuberculosis.

### MONTHLY CHART OF DISINFECTIONS

	Infantile Paralysis	Scarlet Fever	Tuberculosis	Others
January .....	—	6	1	1
February .....	—	1	1	2
March .....	—	2	1	2
April .....	—	2	1	1
May .....	—	—	1	—
June .....	—	—	2	—
July .....	1	—	1	—
August .....	1	—	2	—
September .....	—	4	—	—
October .....	1	12	—	—
November .....	—	11	—	—
December .....	—	10	—	—
	3	48	10	6
Total number of Infectious Diseases notified .....	209			
Total number of premises disinfected .....	67			
Total number of articles disinfected .....	253			
Total number of articles destroyed .....	78			

## SWIMMING BATHS AND POOLS

There are no public or privately-owned baths or pools open to the public in the area.

## SCHOOLS

The general conditions of the Schools in this area can be considered satisfactory, each being supplied with Fylde water, and in each case modern water closets are provided.

The number of notices for Infectious Disease forwarded to Head Teachers is as follows :—

	Total
Burn Naze .....	8
Church Road Senior (Boys and Girls) .....	—
Church Road Junior .....	58
Baines Endowed .....	19
Sacred Heart .....	7
Beach Road .....	42
Kelston Preparatory (Private School) .....	—
Highfield College (Private School) .....	1
Outside Area .....	6
	<hr/>
	141
	<hr/>

The six schools are under the control of the Lancashire Education Committee and are inspected as required.

## OFFENSIVE TRADES

There are fifteen in number, and are confined exclusively to Fish Friars. Regular inspections are made and conditions are generally found to be satisfactory ; 35 inspections were made during the year.

## FACTORIES ACT, 1937

Registers are kept of all premises coming within the scope of the Factories Act, and regular and frequent inspections are made.

Particulars of inspection, defects and contraventions found and remedied are enumerated in the following tables.

There are no underground bakehouses in the district.

### 1. Inspection of Factories and other Premises

Premises	Number of		
	Inspections	Written Notices	Occupiers Prosecuted
Factories (without mechanical power)	85	—	—
Factories (with mechanical power) ...	136	3	—
Total ... ..	221	3	—

### 2. Defects found in Factories and other Premises

Particulars	Number of cases in which defects were found			
	Found	Remedied	Referred by H.M. Inspector	No. of Offences in respect of which prosecutions were taken
Bakehouses—limewashing	1	1	—	—
Unreasonable Temperature	1	1	1	—
Inadequate Ventilation ...	3	3	—	—
Sanitary Conveniences—				
(a) Insufficient ... ..	4	2	1	—
(b) Unsuitable or defective	3	3	1	—
(c) Dirty conveniences ...	1	1	1	—
	13	11	4	—

The following table gives the type of premises in the area coming within the scope of the Factories Act.

Type of Factory	With Mechanical Power	Without Mechanical Power
Bakehouses .....	24	3
Plumbers and Painters .....	3	11
General Workers .....	18	11
Joiners and Builders .....	11	2
Motor Engineers .....	12	—
Nurserymen .....	4	14
Tailors and Dressmakers .....	—	5
Boot and Shoe Repairers .....	15	—
Hairdressers .....	22	—
Chemical Works .....	2	—
Alkali Works .....	1	—
Plastic Works .....	1	—
	113	46

The following table gives the improvements in the factories in the district carried out during the year as a result of action by the Department :—

	Defects Found	Remedied
1. Bakehouses—Limewashing .....	1	1
2. Unreasonable Temperature .....	1	1
3. Inadequate Ventilation .....	3	3
4. Insufficient Sanitary Accommodation ...	4	2
5. Unsuitable or Defective Sanitary Accommodation .....	3	3
6. Dirty Conveniences .....	1	1
	<hr/> 13 <hr/>	<hr/> 11 <hr/>

### DEFECTS IN FACTORIES NOT REMEDIED AS AT 31st DECEMBER, 1950

1. Insufficient Sanitary Accommodation ..... 2 factories

## HOUSING

### Number of New Houses Erected

During the year 37 houses and 8 old people's flats were built in the area.

(i) By the Local Authority .....	30 houses
By the Local Authority .....	8 flats
(ii) By other bodies or persons .....	7
	<hr/>
	45
	<hr/>

### New Houses Erected in 1950 (Ward Distribution)

North Ward .....	—
South Ward .....	5
East Ward .....	10
West Ward .....	30
	<hr/>
	45
	<hr/>

### 1. Inspection of Dwelling-houses

1—(a) Total number of dwelling-houses inspected formally or informally for housing defects (under Public Health or Housing Acts) .....	59
(b) Number of inspections, formal or informal, made for the purpose .....	293
2—(a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 and 1932 .....	—
(b) Number of inspections made for the purpose .....	—
3—Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation ...	1
	(Demolished during year)
4—Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation .....	58

### 2. Remedy of Defects during the year without service of Formal Notices

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers .....	34
---	----

### 3. Action under Statutory Powers during the year

(a) Proceedings under Sections 9, 10, and 16 of the Housing Act, 1936 :	
(1) Number of dwelling-houses in respect of which notices were served requiring repairs .....	13
(2) Number of dwelling-houses which, after service of formal notices, were rendered fit :	
(a) By owners .....	4
(b) By Local Authority in default of owners .....	1

(b) Proceedings under Public Health Acts :

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied .....	0
(2) Number of dwelling-houses in which defects were remedied after service of formal notices :	
(a) By owners .....	0
(b) By Local Authority in default of owners .....	0

(c) Proceedings under Sections 11 and 13 of the Housing Act, 1936 :

(1) Number of dwelling-houses in respect of which Demolition Orders were made .....	0
(2) Number of dwelling-houses demolished in pursuance of Demolition Orders .....	0

(d) Proceedings under Section 12 of the Housing Act, 1936 :

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made .....	0
(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit .....	0

#### 4. Housing Act, 1936—Part IV—Overcrowding

(a) (i) Number of dwellings overcrowded at the end of the year .....	<div style="display: inline-block; vertical-align: middle; font-size: 3em; line-height: 1;">}</div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;">Numbers not known degree of accuracy.</div>
(ii) Number of families dwelling therein .....	
(iii) Number of persons dwelling therein .....	
(b) Number of new cases of overcrowding reported during the year .....	
(c) (i) Number of cases of overcrowding relieved during the year .....	
(ii) Number of persons concerned in such cases .....	

#### 5. Housing Act, 1949

(a) (i) Number of schemes submitted :	
(a) By private individuals .....	—
(b) By the Local Authority .....	—
(ii) Number of dwelling-houses affected .....	—
(b) (i) Number of schemes approved :	
(a) By private individuals .....	—
(b) By the Local Authority .....	—
(ii) Number of dwelling-houses affected .....	—
(iii) Number of additional separate dwellings provided .....	—
(c) Any other action taken (give brief particulars) .....	—



## INSPECTION AND SUPERVISION OF FOOD MILK SUPPLY

There are four dairies in the district, one of them being sub-standard, and efforts are being made by the owner to obtain permission to build a new one. Regular inspections are carried out, and particular attention is paid to the cleanliness of premises, utensils and all articles coming into contact with the milk. The bulk of the milk is supplied by large dairies from outside the district, and regular samples are taken. It is pleasing to report that no sample taken during the year was adversely reported upon.

### Particulars of Distributors of Milk operating in the district

Distributors with premises in the district (including shops) ...	14
Distributors with premises outside the district .....	9

In addition, there are 14/15 producer/distributors in the area.

### Licences in Force—Designated Milks (as at 31/12/50)

Dealers—Tuberculin Tested Milk .....	5
Dealers—Tuberculin Tested (Pasteurised) Milk .....	6
Dealers—Pasteurised Milk .....	8
Dealers—Accredited Milk .....	1
Dealers—Sterilised Milk .....	4
Bottling Licence—Accredited Milk .....	1
Milk Bars .....	5

### Complaints Regarding Milk Supply

Complaints during the year were very few ; each one was thoroughly investigated and the necessary action taken.



## MILK SAMPLES, 1950

	Methylene blue test		Phosphatase test		Turbidity test		Total
	Satis.	Not Satis.	Satis.	Not Satis.	Satis.	Not Satis.	
Tuberculin-tested ...	—	—	—	—	—	—	—
Tuberculin-tested (Pasteurised) ...	9	—	—	—	—	—	9
Accredited ...	1	—	—	—	—	—	1
Pasteurised ...	13	—	22	—	—	—	35
Heat Treated ...	—	—	—	—	—	—	—
Ungraded ...	11	—	—	—	—	—	11
Sterilised ...	—	—	—	—	2	—	2
	34	—	22	—	2	—	58

## SAMPLES FOR TUBERCLE BACILLI INOCULATION TEST

			Absent	Present
Ungraded milk	...	...	11	—

## FOOD AND DRUGS ACT, 1938

During the year, in co-operation with the Department, 33 samples of milk were taken by the County Sanitary Officers for analysis under the above Act.

## ALTERATIONS AND IMPROVEMENTS TO FARM AND DAIRY PREMISES

Major repairs and alterations at one dairy were being carried out at the end of the year, and minor repairs to a second dairy.

## INSPECTION AND SUPERVISION OF MEAT AND OTHER FOODS

There are no licensed slaughter-houses in the area, but inspections to retail shop premises were paid at frequent intervals. All food preparation premises are regularly inspected at least once a quarter, and for that purpose 387 inspections were carried out. (Bakehouses; restaurants and cafe kitchens; un-sound foodstuffs; fish friers; ice cream premises; butchers' shops and food preparation premises.)

By regular inspection, advice and co-operation with the owners, we have obtained several improvements in food preparation premises and bakehouses. It has been possible to get owners and employees interested in using hygienic methods in the preparation of food on their premises, and it is hoped to intensify efforts in this direction in the future.

### CARCASSES INSPECTED AND CONDEMNED

The following are the particulars of the animals killed in the district, carcasses inspected and particulars of any condemnations.

The slaughter of animals for food in this district is confined to pigs slaughtered under licence from the appropriate authority for individual self-suppliers of meat.

	Cattle excluding cows <sup>1</sup>	Cows	Calves	Sheep and Lambs	Pigs
Number killed (if known) ...	—	—	—	—	108
Number inspected ...	—	—	—	—	108
<b>All Diseases except Tuberculosis</b>					
Whole carcasses condemned ...	—	—	—	—	—
Carcasses of which some part or organ was condemned ...	—	—	—	—	3
Percentage of the number inspected affected with disease other than Tuber- culosis ...	—	—	—	—	2.7%
<b>Tuberculosis only—</b>					
Whole carcasses condemned ...	—	—	—	—	—
Carcasses of which some part or organ was condemned ...	—	—	—	—	1
Percentage of number in- spected affected with Tuberculosis ...	—	—	—	—	0.9%

## UN SOUND FOODSTUFFS

It was found necessary, after examination and tests, to accept voluntary surrender of the following foodstuffs :—

Foodstuff	Tins	Packets	Weight in lbs.
Beef ... ..	—	—	711 lbs. 12 ozs.
Tomato Puree ... ..	27	—	—
Heinz Beans ... ..	7	—	—
Garden Peas ... ..	3	—	—
Meat and Gravy ... ..	3	—	—
Butter ... ..	—	—	8 lbs. 13 ozs.
Danish Brislings ... ..	62	—	—
Boiled Ham ... ..	3	—	—
Cheese ... ..	—	—	5 lbs.
Stilton Cheese ... ..	—	—	8 ozs.
Bacon ... ..	—	—	5 lbs. 9 ozs.
Crawfish ... ..	1	—	—
Crab... ..	1	—	—
Pears ... ..	1	—	—
Luncheon Meat ... ..	3	—	—
Canned Ham ... ..	4	—	—
Evaporated Milk ... ..	22	—	—
Strawberries ... ..	1	—	—
Beans ... ..	6	—	—
Tomatoes ... ..	1	—	—
Oatmeal ... ..	1	—	—
Salmon ... ..	2	—	—
Bengers Food ... ..	1	—	—
Grapefruit... ..	1	—	—
Carrots ... ..	1	—	—
Liquid Egg... ..	2	—	—
Heinz Soup ... ..	2	—	—
Stringless Beans ... ..	2	—	—
Shrimps... ..	2	—	—
Tall Mixed Vegetables ... ..	2	—	—
Sweet Pickle ... ..	2	—	—
Jam ... ..	—	—	2 lbs.
Grape Nuts ... ..	—	2	—
Powdered Soups ... ..	—	18	—
	<u>163</u>	<u>20</u>	<u>733 lbs. 10 ozs.</u>

## ICE CREAM

There were five manufacturers and 56 dealers on the register as at 31st December, 1950.

Regular and frequent inspections were carried out at these premises, and during the summer period the premises registered for the manufacture of ice cream were inspected at least once in every month; 95 inspections were carried out to ice cream premises during the year.

# ANALYSIS OF SAMPLES OF ICE CREAM

Sender's Ref. No.	Methylene Blue Test Provisional Grade				Presumptive Coliform	Satisfactory Test regarding	
	1	2	3	4		Meth. Blue	for B. Coli.
1	1	0	0	0	0 to 3	Yes	Yes
2	1	0	0	0	0 to 3	Yes	Yes
3	1	0	0	0	0 to 3	Yes	Yes
4	1	0	0	0	0 to 3	Yes	Yes
5	1	0	0	0	0 to 3	Yes	Yes
6	1	0	0	0	0 to 3	Yes	Yes
7	1	0	0	0	—	Yes	—
8	1	0	0	0	—	Yes	—
9	1	0	0	0	—	Yes	—
10	1	0	0	0	—	Yes	—
11	1	0	0	0	—	Yes	—
12	0	1	0	0	—	Yes	—
13	1	0	0	0	—	Yes	—
14	1	0	0	0	—	Yes	—
15	1	0	0	0	—	Yes	—
16	1	0	0	0	—	Yes	—
17	1	0	0	0	—	Yes	—
18	1	0	0	0	—	Yes	—
19	1	0	0	0	—	Yes	—
20	1	0	0	0	—	Yes	—
21	1	0	0	0	—	Yes	—
22	1	0	0	0	—	Yes	—
23	1	0	0	0	—	Yes	—
24	1	0	0	0	—	Yes	—
25	1	0	0	0	—	Yes	—
26	1	0	0	0	—	Yes	—
27	1	0	0	0	—	Yes	—
28	1	0	0	0	—	Yes	—
29	1	0	0	0	—	Yes	—
30	1	0	0	0	—	Yes	—
31	1	0	0	0	—	Yes	—
32	0	1	0	0	—	Yes	—
33	1	0	0	0	—	Yes	—
34	1	0	0	0	—	Yes	—
35	0	1	0	0	—	Yes	—
36	0	0	0	1	—	No	—
37	1	0	0	0	—	Yes	—
38	0	0	0	1	—	No	—
39	1	0	0	0	—	Yes	—
40	0	1	0	0	—	Yes	—
41	1	0	0	0	—	Yes	—
42	1	0	0	0	—	Yes	—
43	0	0	0	1	—	No	—
44	0	0	0	1	—	No	—
45	0	0	0	1	—	No	—
46	0	0	0	1	—	No	—
47	0	1	0	0	—	Yes	—
48	1	0	0	0	—	Yes	—
49	0	1	0	0	—	Yes	—
50	0	0	1	0	—	No	—
51	0	0	0	1	—	No	—

(continued)

# **ANALYSIS OF SAMPLES OF ICE CREAM — (Continued)**

Sender's Ref. No.	Methylene Blue Test Provisional Grade				Presumptive Coliform	Satisfactory regarding Test for	
	1	2	3	4		Meth.Blue	B. Coli.
52	1	0	0	0	—	Yes	—
53	1	0	0	0	—	Yes	—
54	0	0	0	1	—	No	—
55	0	0	0	1	—	No	—
56	0	0	1	0	—	No	—
57	0	0	0	1	—	No	—
58	0	0	1	0	—	No	—
59	0	1	0	0	—	Yes	—
60	0	1	0	0	—	Yes	—
61	0	0	0	1	—	No	—
62	1	0	0	0	—	Yes	—
63	—	—	—	—	—	No result	—
64	1	0	0	0	—	Yes	—
65	0	0	0	1	—	No	—
66	0	1	0	0	—	Yes	—
67	0	0	0	1	0 to 3	No	Yes
68	1	0	0	0	7	Yes	Yes
69	1	0	0	0	450	Yes	No
70	1	0	0	0	0 to 3	Yes	Yes
71	0	1	0	0	—	Yes	—
72	0	0	1	0	—	No	—
73	1	0	0	0	—	Yes	—
74	1	0	0	0	—	Yes	—
75	0	0	1	0	—	No	—
76	0	0	1	0	—	No	—
77	0	0	1	0	—	No	—
78	0	1	0	0	—	Yes	—
79	1	0	0	0	—	Yes	—
80	0	1	0	0	—	Yes	—
81	0	0	0	1	—	No	—
82	0	0	1	0	—	No	—
83	0	0	0	1	—	No	—
84	0	0	0	1	—	No	—
85	0	0	1	0	—	No	—
86	0	0	1	0	—	No	—
87	1	0	0	0	—	Yes	—
88	0	1	0	0	—	Yes	—
89	0	0	1	0	—	No	—
90	0	1	0	0	—	Yes	—
91	1	0	0	0	—	Yes	—
92	0	1	0	0	—	Yes	—
93	0	1	0	0	—	Yes	—
94	1	0	0	0	—	Yes	—

<b>Number of Samples taken for Methylene Blue Test</b>	<b>83</b>
Satisfactory ... ..	57
Not Satisfactory ... ..	26
<b>Number of Samples taken for Methylene Blue and B. Coli. ... ..</b>	<b>10</b>
Methylene Blue Test :	
Satisfactory ... ..	9
Not Satisfactory ... ..	1
Coliform Test :	
Satisfactory ... ..	9
Not Satisfactory ... ..	1

## SAMPLES OBTAINED FROM MANUFACTURERS IN AREA

<b>Manufacturer "A"</b>	—1 2 3 4 7 8 9 10 11 12 13 16 17 18 19 24 25 26 27 32 40 41 42 43 44 45 46 52 54 55 60 61 62 67 68 71 79 80 85 92 93.		
	Total : 42.	Satisfactory : 33.	Not Satisfactory : 9.
<b>Manufacturer "B"</b>	—5 6 14 15 21 22 28 29 58 64 69 73 87 91.		
	Total : 14.	Satisfactory : 13.	Not Satisfactory : 1.
<b>Manufacturer "C"</b>	—56 81.		
	Total : 2.	Satisfactory : —.	Not Satisfactory : 2.
<b>Manufacturer "D"</b>	—23 51 59 66 78.		
	Total : 5.	Satisfactory : 4.	Not Satisfactory : 1.
<b>Manufacturer "E"</b>	—31 70.		
	Total : 2.	Satisfactory : 2.	Not Satisfactory : —.

## SAMPLES OBTAINED FROM MANUFACTURERS OUTSIDE AREA

<b>Manufacturer "F"</b>	—20 30 36 38 57 65 75 83 84 86 94.		
	Total : 11.	Satisfactory : 3.	Not Satisfactory : 8.
<b>Manufacturer "G"</b>	—34.		
	Total : 1.	Satisfactory : 1.	
<b>Manufacturer "H"</b>	—33 82.		
	Total : 2.	Satisfactory : 1.	Not Satisfactory : 1.
<b>Manufacturer "I"</b>	—35 47.		
	Total : 2.	Satisfactory : 2.	
<b>Manufacturer "J"</b>	—37 72.		
	Total : 2.	Satisfactory : 1.	Not Satisfactory : 1.
<b>Manufacturer "K"</b>	—38 89.		
	Total : 2.	Satisfactory : 1.	Not Satisfactory : 1.
<b>Manufacturer "L"</b>	—48.		
	Total : 1.	Satisfactory : 1.	
<b>Manufacturer "M"</b>	—49.		
	Total : 1.	Satisfactory : 1.	
<b>Manufacturer "N"</b>	—50 77 90.		
	Total : 3.	Satisfactory : 1.	Not Satisfactory : 2.
<b>Manufacturer "O"</b>	—74.		
	Total : 1.	Satisfactory : 1.	
<b>Manufacturer "P"</b>	—76.		
	Total : 1.	Satisfactory : —.	Not Satisfactory : 1.
<b>Manufacturer "Q"</b>	—88.		
	Total : 1.	Satisfactory : 1.	

Samples of Ice Cream manufactured in area classified as NOT SATISFACTORY — Methylene Blue Test (12) — 46.1%.

Samples of Ice Cream manufactured outside area but retailed in area and classified as NOT SATISFACTORY — Methylene Blue Test (14) — 53.8%.

## Samples for Quality Analysis

During the year the following samples were taken for quality analysis and, in accordance with Circular MF3/49, the results were sent to the Ministry of Food.

Sample Number	Fat Content	Total Solids
	%	%
1	15.3	39.5
2	8.4	31.4
3	5.9	27.0
4	7.8	38.4
5	11.7	38.6
6	9.3	30.8
7	9.1	34.9
8	11.4	39.1
9	10.7	31.5
10	6.0	28.8
11	4.0	26.2
12	11.3	35.1
13	9.2	35.6
14	13.3	40.3
15	12.8	36.6
16	10.0	34.3
17	12.8	36.2
18	7.8	28.3
19	5.4	27.4

### SAMPLES TAKEN FROM MANUFACTURERS IN AREA

Manufacturer "A"—Samples numbered 1 5 8 14 17.  
Manufacturer "B"—Samples numbered 2 6 18.  
Manufacturer "C"—Sample numbered 4.  
Manufacturer "D"—Sample numbered 11.  
Manufacturer "E"—Sample numbered 9.

### SAMPLES TAKEN FROM MANUFACTURERS OUTSIDE AREA

Manufacturer "F"—Samples numbered 3 10 19.  
Manufacturer "G"—Sample numbered 7.  
Manufacturer "H"—Sample numbered 12.  
Manufacturer "I"—Sample numbered 13.  
Manufacturer "J"—Sample numbered 15.  
Manufacturer "K"—Sample numbered 16.

## ICE CREAM

There are four factories in the district manufacturing heat-treated ice cream and one factory manufacturing cold-mix. The premises generally are of a satisfactory standard and possess the necessary modern equipment, including steam sterilisation plants.

The sampling of ice-cream has been of great assistance, and has enabled us to point out defects which have occurred in the manufacture. Co-operation between the manufacturers and the Department has been good, and several minor improvements have been carried out.



## DESTRUCTION OF DOMESTIC PETS

The modern electrical chamber for the destruction of unwanted dogs and cats is in constant use, and has been greatly appreciated by the public. For a nominal charge any person can have a cat or dog destroyed painlessly. The department undertakes the proper disposal of the carcasses.

Number of dogs destroyed in 1950 ... ..	217		
Number of cats destroyed in 1950 ... ..	128		
	£	s.	d.
Total income from destruction of animals ... ..	18	15	6
Total income from sale of carcasses ... ..	10	0	0
Total ... ..	£28	15	6

## MARKETS

The only market in the district which is privately owned has been regularly inspected throughout the year.

## SHELL FISH

There are no shell fish beds in our area.

## MORTUARY

A modern mortuary, possessing equipment in accordance with present-day practice, was erected during the year and was available for use from September. The use of the insanitary and inadequate old mortuary has therefore been discontinued.

# METEOROLOGICAL OBSERVATIONS

The rainfall is taken daily at 9-0 a.m. at the Council's Depot, and reports are placed monthly before the Council.

INCHES PER ACRE.

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total for Year
1939	3.43	2.17	1.77	2.56	0.76	2.63	6.22	1.79	0.92	1.76	4.28	2.21	30.50
1940	2.60	1.65	3.25	1.76	1.71	0.40	2.77	1.15	2.37	3.62	4.51	3.20	28.99
1941	1.18	3.49	2.29	0.72	3.10	0.57	0.94	2.42	0.90	4.10	1.95	1.03	22.69
1942	3.04	1.47	2.22	1.53	2.93	0.77	3.02	3.85	2.32	3.31	0.81	3.36	28.63
1943	5.83	1.74	0.55	1.92	3.29	2.10	4.63	4.74	4.78	4.50	2.73	1.56	38.37
1944	3.59	1.00	0.49	3.20	2.38	1.79	2.76	3.19	4.27	4.43	6.27	3.73	37.10
1945	2.29	4.54	1.57	1.70	3.40	2.80	2.59	0.71	3.48	5.21	0.15	2.93	31.37
1946	4.99	3.71	0.93	1.06	1.91	2.42	3.73	4.15	5.06	0.57	6.09	4.26	38.88
1947	2.95	0.55	4.81	3.21	4.57	2.42	3.16	0.66	3.45	0.50	3.73	2.08	32.10
1948	6.19	1.58	1.62	1.21	1.33	5.03	1.79	3.09	4.68	3.20	2.73	2.39	34.84
1949	1.85	1.36	1.74	2.77	3.04	0.30	3.21	2.55	0.79	4.74	3.35	5.25	30.95
1950	1.56	4.05	1.67	2.02	0.75	1.47	2.78	6.60	6.33	3.27	4.33	2.60	37.49

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